

AMENDMENTS

In the claims:

Please amend claims 1 and 3 and add new claims 10-11.

1. (Currently Amended) An essentially purified neurotrophin of carp, carp NT-7 having neurotrophic activity and an amino acid sequence [SEQ. ID. NO. 1], ~~comprising as follows:~~

Lys Ala Asn Asp Phe Leu His Arg Gly Glu Tyr Ser Val Cys Asp Ser Glu Glu His Trp Val Gly
Asn Leu Thr Gln Ala Thr Asp Leu Arg Gly Asn Glu Val Thr Val Leu Pro His Val Arg Ile Asn
Asn Val Val Lys Lys Gln Met Phe Tyr Glu Thr Thr Cys Arg Val Ser Lys Pro Ile Gly Ala Pro
Lys Pro Gly Gln Gly Val Ser Gly Val Ser Gly Val Lys Ala Gly Thr Ser Ser Cys Arg Gly Ile Asp
Asn Glu His Trp Asn Ser Tyr Cys Thr Asn Val His Thr Phe Val Arg Ala Leu Thr Ser Tyr Lys
Asn Gln Ile Ala Trp Arg Phe Ile Arg Ile Asn Ala Ala Cys Val Cys Val Leu Ser Arg Asn Ser Trp
Arg His ~~(SEQ ID NO: 1) or functional variants, analogues and functional fragments of NT-7.~~

2. (Previously Withdrawn)

3. (Currently Amended) A composition ~~comprising of~~ an essentially purified neurotrophin of carp, carp NT-7 having neurotrophic activity, comprising:

_____ a carrier; and

_____ an amino acid sequence as follows: [SEQ. ID. NO. 1] Lys Ala Asn Asp Phe Leu His Arg
Gly Glu Tyr Ser Val Cys Asp Ser Glu Glu His Trp Val Gly Asn Leu Thr Gln Ala Thr Asp Leu
Arg Gly Asn Glu Val Thr Val Leu Pro His Val Arg Ile Asn Asn Val Val Lys Lys Gln Met Phe
Tyr Glu Thr Thr Cys Arg Val Ser Lys Pro Ile Gly Ala Pro Lys Pro Gly Gln Gly Val Ser Gly Val
Ser Gly Val Lys Ala Gly Thr Ser Ser Cys Arg Gly Ile Asp Asn Glu His Trp Asn Ser Tyr Cys Thr

Asn Val His Thr Phe Val Arg Ala Leu Thr Ser Tyr Lys Asn Gln Ile Ala Trp Arg Phe Ile Arg Ile
Asn Ala Ala Cys Val Cys Val Leu Ser Arg Asn Ser Trp Arg His (SEQ ID NO:1) or functional
variants, analogues and functional fragments of NT-7.

4. Cancel.

5. (Previously Withdrawn)

6-9. (Previously Cancelled)

10. (New) The neurotrophin according to claim 1, wherein the amino acid sequence is a functional variant of SEQ. ID. NO.:1 that increases survival and neurite outgrowth of embryonic chick DRG neurons.

11. (New) The composition according to claim 3, wherein the amino acid sequence is a functional variant of SEQ. ID. NO.:1 that increases survival and neurite outgrowth of embryonic chick DRG neurons.